

IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-6 (Cancel)

7. (New) A water wheel generator comprising:

a first water wheel and generator pair mounted on a first vertical axle for rotation about a first vertical axis;

a second water wheel and generator pair mounted on a second vertical axle for co-rotation with said first fluid wheel and generator pair about said first vertical axis;

wherein said second vertical axle is adapted for rotation about said first vertical axle;

wherein said first and second water wheels are mounted for immersion in a stream of moving water; and

wherein said first and second generators are both mounted above said first and second water wheels and out of said moving stream of water.

8. (New) A water wheel generator comprising:

a first water wheel and generator pair mounted on a first vertical axle for rotation about a vertical axis;

a second water wheel and generator pair mounted on a second vertical axle for co-rotation with said first fluid wheel and generator pair about said first vertical axis;

a central hub adapted to substantially exclude said moving stream of water from the body of said central hub; and

a plurality of paddles for engaging the said stream of moving water;

wherein said second vertical axle is adapted for rotation about said first vertical axle;

wherein said first and second water wheels are mounted for immersion in a stream of moving water; and

wherein said first and second generators are both mounted above said first and second water wheels and out of said moving stream of water.

9. (New) The water wheel generator according to claim 8 wherein each of said paddles is mounted to said central hub for rotation about a paddle vertical axis from a closed and substantially inoperative position to an open and moving water engaging position.

10. (New) The water wheel generator according to claim 9 wherein each said paddle vertical axis is substantially spaced from said central hub.

11. (New) The water wheel generator according to claim 10 wherein said vertical axis is intermediate the ends of each said paddle.

12. (New) The water wheel generator according to claim 11 wherein said paddles extend from said central hub beyond said vertical axis when engaging the said water flow.

13. (New) The water wheel generator according to claim 12 wherein said paddles substantially close off water flow when in the return position.

14. (New) The water wheel generator according to claim 13 wherein said paddles engage at least one adjacent paddle when in the return position so as to substantially prevent free rotation of said paddles.

15. (New) The wheel generator according to claim 14 further comprising a cavity containing each said water wheel and wherein said water flow is directed in each of said cavities onto said paddles in the engaging position and away from said paddles in the return position.

16. (New) The water wheel generator according to claim 15 wherein each said cavity is substantially closed to water flow by said paddles in the return position.

17. (New) The water wheel generator according to claim 16 wherein each said cavity is closely filled by said paddles in said return position.

18. (New) The water wheel generator according to claim 17 wherein

said cavity includes a water entry inlet funnel adapted to compel said moving water to primarily engage those of said paddles in the operating position.

19. (New) The water wheel generator according to claim 18 wherein said water entry is aligned between said first vertical axis and those of said paddles in the operative position.

20. (New) The water wheel generator according to claim 19 wherein each said cavity is offset from the said first vertical axis so as to engage said paddles both in the engaging position and in the return position.

21. (New) A fluid wheel generator comprising:

a first fluid wheel and generator pair mounted on a first vertical axle for rotation about a vertical axis;

a second fluid wheel and generator pair mounted on a second vertical axle for co-rotation with said first fluid wheel and generator pair about said first vertical axis;

wherein said second vertical axle adapted for rotation about said first vertical axle;

wherein said first and second fluid wheels mounted for immersion in a stream of moving fluid;

wherein said first and second generators both mounted below said first and second fluid wheels; and

wherein each of said wheels comprises:

a central hub adapted to substantially exclude said moving stream of fluid from the body of said central hub; and

a plurality of paddles for engaging the said stream of moving fluid each mounted to said central hub for rotation about a paddle vertical axis from a closed and substantially inoperative position to an open and moving fluid engaging position.

22. (New) The fluid wheel generator according to claim 21 wherein each said paddle vertical axis is substantially spaced from said central hub.

23. (New) The fluid wheel generator according to claim 22 wherein said vertical axis is intermediate the ends of each said paddle.

24. (New) The fluid wheel generator according to claim 23 wherein said paddles extend from said central hub beyond said vertical axis when engaging the said fluid flow.

25. (New) The fluid wheel generator according to claim 24 wherein said paddles substantially close off fluid flow when in the return position and wherein said paddles engage at least one adjacent paddle when in the return position so as to substantially prevent free rotation of said paddles.

26. (New) The fluid wheel generator according to claim 25 further comprising:

a cavity containing each said fluid wheel;

wherein said fluid flow is directed in said cavity onto said paddles in the engaging position and away from said paddles in the return position;

wherein said cavity is substantially closed to water flow by said paddles in the return position;

wherein said cavity is closely filled by said paddles in said return position;

wherein each said cavity is offset from the said first vertical axis so as to engage said paddles both in the engaging position and in the return position;

wherein said cavity includes a fluid entry funnel adapted to compel said moving fluid to primarily engage those of said paddles in the operating position; and

wherein said fluid entry funnel is aligned between said first vertical axis and said paddles in the operative position.